

25 FEB 2000

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

25 FEB 2005

Applicant's or agent's file reference	T	See Notification of Transmittal of International					
PCT 1888HHBRon	FOR FURTHER ACTION See Notification of Transmittation International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/mo	onth/year) Priority date (day/month/year) 30.08.2002					
PCT/EP 03/09697	01.09.2003						
International Patent Classification (IPC) or both national classification and IPC							
E21B33/035	E21B33/035						
·							
Applicant							
COOPER CAMERON CORPORATION et al.							
This international preliminary exa Authority and is transmitted to the	mination report has been prep applicant according to Article	pared by this International Preliminary Examining a 36.					
2. This REPORT consists of a total	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total	of sheets.						
3. This report contains indications re	olating to the following items:						
	stating to the following stemes						
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │	1						
Priority	section with regard to povel	y, inventive step and industrial applicability					
		y, inventive step and industrial approximation					
IV Lack of unity of inven	under Rule 66 2(a)(ii) with red	gard to novelty, inventive step or industrial applicability;					
V 🛛 Reasoned statement citations and explana	tions supporting such statement	ent					
VI Certain documents c							
	international application						
VIII	on the international application	n					
		e of completion of this report					
Date of submission of the demand	Date	g of composition of the report					
27.02.2004	03.	09.2004					
Name and mailing address of the internation	onal Aut	horized Officer					
preliminary examining authority: European Patent Office		in the second se					
D-80298 Munich	Ott	i, s (((()					
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages							
	1-16	3	as originally filed						
	Ola:	ima Numbors							
		ims, Numbers	an arisinally filed						
1-32			as originally filed						
	Dra	wings, Sheets							
	1/2-	2/2	as originally filed						
2.	With	th regard to the language , all the elements marked above were available or furnished to this Authority in the guage in which the international application was filed, unless otherwise indicated under this item.							
	The	nese elements were available or furnished to this Authority in the following language: , which is:							
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publ	lication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).						
3.	With inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inte	rnational application in written form.						
		filed together with th	e international application in computer readable form.						
		furnished subsequer	ntly to this Authority in written form.						
		furnished subsequer	ntly to this Authority in computer readable form.						
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.						
		The statement that t	he information recorded in computer readable form is identical to the written sequence ished.						
1.	The	amendments have r	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-32

Inventive step (IS)

Yes: Claims

No: Claims 1-32

Industrial applicability (IA)

Yes: Claims

1-32

No: Claims

2. Citations and explanations

see separate sheet

POINT V

V-1. D1: WO-0237008 discloses a rotating regulating device for the rotation and/or linear displacement of an actuating element of a valve, throttle, blowout preventer or similar, in particular in the field of gas or oil production (p.1, l.1-6), with a spindle drive (45) and a drive train (46) rotationally driving the spindle drive, the said drive train exhibiting at least one reduction gear unit (44) and a drive device (43) connected to it for movement, wherein the rotating spindle or nut of the spindle drive exhibits at least one engaging element (17) essentially protruding radially outwards, which engages guide slots (11-14), whereby a first guide slot (14) is fixed relative to a device housing and a second guide slot (12) can be rotated relative to the device housing and/or is supported for displacement in the longitudinal direction of the rotating spindle, whereby the guide slots exhibit at least different slopes in the longitudinal direction (p.9, l.9-11) of the rotating spindle and the movable guide slot is connected for movement to the actuating element (4).

The subject-matter of claim 1 does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.

- V-2. D1 also discloses the subject-matter of claim 2-13, 17, 29-30 and the subject-matter of said claims does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.
- V-3. D1 in combination with D2: US-5370011 disclose the subject-matter of claims 14-16, 22, 31, 32 since D2 discloses the use of both a harmonic drive and a position sensor.
 - D1 in combination with D3: US-5497672 discloses the subject-mattef of claims 18-21, 23, 24.
 - D1 in combination with D4: DE-3607899 discloses the subject-matter of claim 25-28 since D4 discloses the use of of several drive shafts.
- V-4. The subject-matter of claims 15-23 and 32 does not meet the requirements of clarity in the sense of Art. 6 PCT. Said claims are dependent claim any of the previous claims and mention features (such as the harmonic drive, claim 15) which have not been previously introduced (harmonic drive only mentioned in claim 14).

INTERNATIONAL PRELIMINARY International application No. PCT/EP03/09697 EXAMINATION REPORT - SEPARATE SHEET

V-5. Following defect is pointed out:

Rule 6.3b)i) and ii) PCT: incorrect two part form of independent claim with regard to D1.